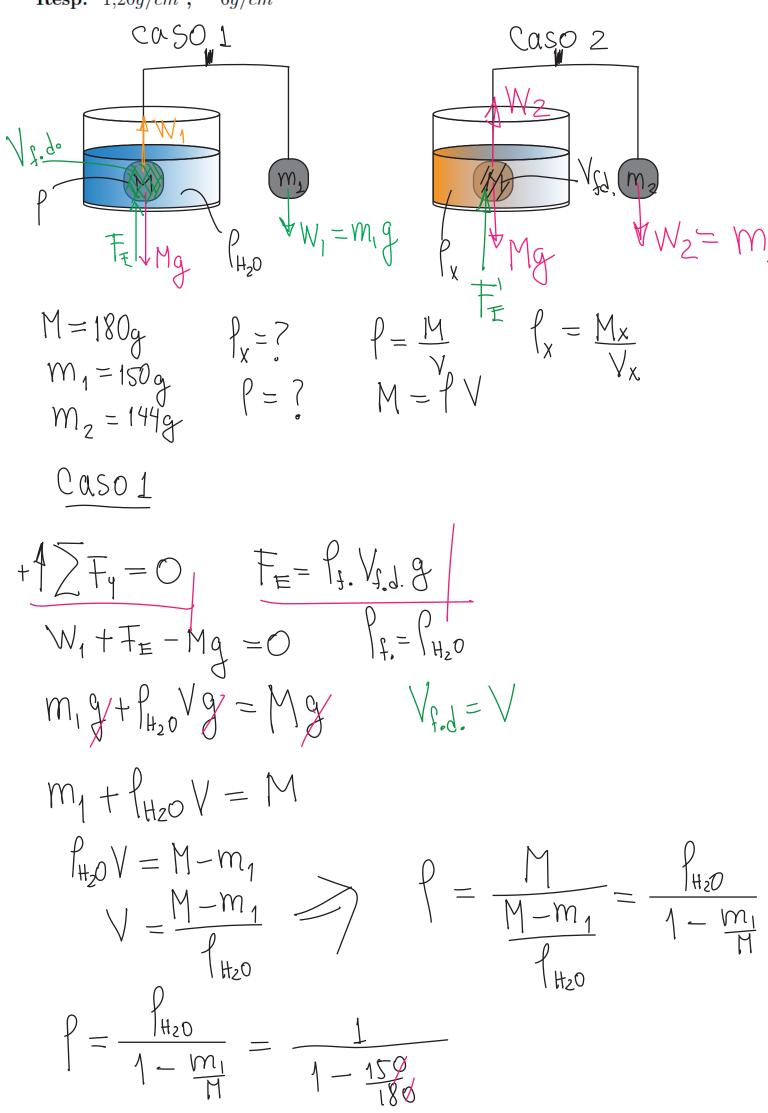


Resp: $1{,}20g/cm^3$, $6g/cm^3$



$$f = 6 \text{ g/cm}^3 \text{ Sol a}$$

Caso 2

$$\begin{array}{l}
-4 \sum F_{y} = 0 \\
W_{z} + F_{E}^{1} - Mg = 0 \\
m_{z} g + f_{x} W = Mg \\
m_{z} + f_{x} V = M
\end{array}$$

$$P_XV = M - m_z$$

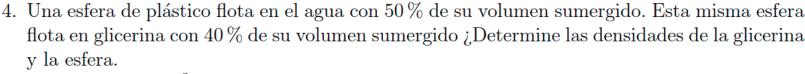
$$f_{X} = \frac{M}{V} - \frac{m_{z}}{V} = f - \frac{m_{z}}{\frac{M-m_{1}}{f_{Hz0}}}$$

$$f_{X} = P - \frac{P_{H_{20}} m_{z}}{M - m_{1}} = 6 - \frac{1.144}{180 - 150}$$

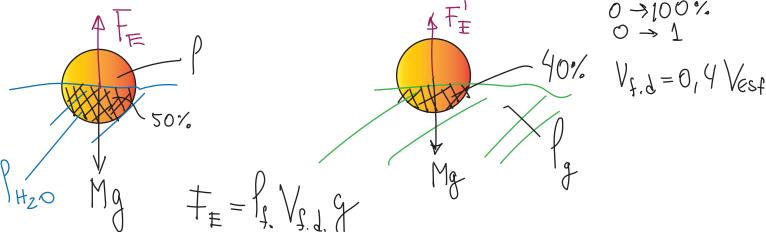
F= ft /4.d. f

 $\int_{C} = \int_{X} \qquad \bigvee_{S \mid A} = \bigvee$

$$f_{x} = 1.2 \, g_{cm^{3}}$$
, 50l
$$f_{Hz0} = 1 \, g_{cm^{3}}$$



Resp: $1250kg/m^3$ 500kg



$$F_{\pm} = 0$$

$$F_{\pm} - Mg = 0$$

$$F_{\pm} - Mg = 0$$

$$F_{\pm} - Mg = 0$$

$$F_{\pm} = 0$$

$$F_{\pm}$$

$$ZF_{y} = 0$$

$$F_{E} - Mg = 0$$

$$f_{g} = 0,4 \text{ Vest} = Mg$$

$$f_{g} = \frac{5}{2} \text{ Vest} = M$$

$$f_{g} = \frac{5}{2} (\frac{M}{\text{Vest}}) = \frac{5}{2}f$$

$$f_{g} = \frac{5}{2} (500)$$

$$f_{g} = 1250 \text{ Kg/m}^{3}$$

$$Sol 5$$